CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/MP/CEMENT/2014-15

Date: 04.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. M. Prakash**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains in Kashinagara cross road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

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Job No.: CTCE/BBMP/W.No.07/MP/SAND/2014-15 : 04.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Kashinagara cross road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Date of Testing : 04.07.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	4.40	4.40	95.6	90-100
2.36	198	9.90	14.30	85.7	75-100
1.18	430	21.50	35.80	64.2	55-90
600 Micron	436	21.80	57.60	42.4	35-59
300 Micron	498	24.90	82.50	17.5	8-30
150 Micron	256	12.80	95.30	4.7	0-10

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Job No.: CTCE/BBMP/W.No.07/MP/AGG/2014-15 : 04.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Kashinagara cross road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Date of Testing : 04.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25500

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.90	3.90	96.10	95-100
20	16585	65.04	68.94	31.06	30-70
10	5110	20.04	88.98	11.02	10-35
4.75	2520	9.88	98.86	1.14	0-5

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Job No.: CTCE/BBMP/W.No.07/MP/STEEL/2014-15 04.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. M. Prakash,** Contractor, Bangalore.
Name of the Work	:	Improvements to roads and drains in Kashinagara cross road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
Date of Test	:	04.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	548	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/MP/STEEL/2014-15 04.07.2014

TEST REPORT ON REINFORCEMENT STEEL

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Reference	:	AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
Date of Test	:	04.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.30	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

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Reference	:	AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
Date of Test	:	04.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/MP/CUBE/2014-15

15.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. M. Prakash,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains in Kashinagara cross road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2014	15.07.2014	8.488	398.4	17.71
2	08.07.2014	15.07.2014	8.396	378.6	16.83
3	08.07.2014	15.07.2014	8.279	358.3	15.92

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Job No.: CTCE/BBMP/W.No.07/MP/CUBE/2014-15

11.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. M. Prakash,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains in Kashinagara cross road in Ward No.07(Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.07.2014	11.08.2014	8.115	252.6	11.23
2	14.07.2014	11.08.2014	8.290	265.3	11.79
3	14.07.2014	11.08.2014	8.378	275.3	12.24

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TEST REPORT ON CONCRETE CUBES

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Agency : **Mr. M. Prakash,** Contractor, Bangalore.

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on. : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.135	483.5	21.49
2	18.07.2014	15.08.2014	8.250	498.3	22.15
3	18.07.2014	15.08.2014	8.389	516.3	22.95

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Agency : **Mr. M. Prakash,** Contractor, Bangalore.

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	18.08.2014	8.155	475.5	21.13
2	21.07.2014	18.08.2014	8.239	502.3	22.32
3	21.07.2014	18.08.2014	8.335	516.4	22.95

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.07.2014	20.08.2014	8.198	478.3	21.26
2	23.07.2014	20.08.2014	8.265	506.3	22.50
3	23.07.2014	20.08.2014	8.310	520.1	23.12

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Agency : **Mr. M. Prakash,** Contractor, Bangalore.

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2014	21.08.2014	8.095	483.5	21.49
2	24.07.2014	21.08.2014	8.175	495.6	22.03
3	24.07.2014	21.08.2014	8.225	515.2	22.90

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TEST REPORT ON CONCRETE CUBES

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Agency : **Mr. M. Prakash,** Contractor, Bangalore.

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2014	22.08.2014	8.283	480.6	21.36
2	25.07.2014	22.08.2014	8.356	510.3	22.68
3	25.07.2014	22.08.2014	8.475	522.2	23.21

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Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.07.2014	23.08.2014	8.112	475.5	21.13
2	26.07.2014	23.08.2014	8.255	482.3	21.44
3	26.07.2014	23.08.2014	8.310	510.2	22.68

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Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.07/MP/CUBE/2014-15

25.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains in Kashinagara cross road in Ward No.07(Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KOD.SUB.DIV)/ /2014-15 Dated: 03.07.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2014	25.08.2014	8.122	480.2	21.34
2	28.07.2014	25.08.2014	8.275	502.3	22.32
3	28.07.2014	25.08.2014	8.310	523.4	23.26

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